

What is claimed is:

1. A removable hard disk module installed in a module fixing device, the removable hard disk module comprising:

5 a module sidewall;

a first slide rail fixed on the module sidewall, wherein the first slide rail is an elastically linear slide rail made of a linear material; and

a second slide rail fixed on the module sidewall and above the first slide rail, wherein the first slide rail and the second slide rail support the removable hard disk
10 module so that the removable hard disk module slides in the module fixing device.

2. The removable hard disk module of claim 1, wherein the module fixing device further comprises a supporting wall, the supporting wall further comprising at least two support studs to support the removable hard disk module and the removable
15 hard disk module sliding in the module fixing device.

3. The removable hard disk module of claim 2, wherein the support stud comprises a support block to increase contact surfaces for the first slide rail and the second slide rail.
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4. The removable hard disk module of claim 2, wherein the first slide rail further comprises convex surfaces for clamping the support studs to reduce an influence of impact on the removable hard disk module.

25 5. The removable hard disk module of claim 3, wherein the removable hard disk

module further comprises a handle at a front portion thereof for convenient installation and removal of the removable hard disk module.

6. The removable hard disk module of claim 5, wherein the handle further comprises a withdrawal post to push one of the support studs to release conveniently the removable hard disk module from the module fixing device when the handle is open.

7. The removable hard disk module of claim 1, wherein the second slide rail is directly pressed on the module sidewall.

8. The removable hard disk module of claim 1, wherein the second slide rail is made of the elastically linear material.

9. The removable hard disk module of claim 8, wherein the linear material is a piano wire.

10. The removable hard disk module of claim 9, wherein a diameter the piano wire is about 1mm.

11. A removable apparatus, comprising:

a removable module for fixing an electrical device therein, wherein the removable module further comprises:

a module sidewall;

a first slide rail fixed on the module sidewall, wherein the first slide rail is an

elastically linear slide rail made of a linear material;

a second slide rail fixed on the module sidewall and above the first slide rail;

and

a module fixing device, wherein the module fixing device further comprises:

5 a supporting wall; and

at least two support studs fixed on the supporting wall to couple to the first slide rail and the second slide rail of the removable module, whereby the removable module is installed and slides in the module fixing device.

10 12. The removable apparatus of claim 11, wherein the support stud comprises a support block to increase contact surfaces for the first slide rail and the second slide rail.

15 13. The removable apparatus of claim 11, wherein the removable module further comprises a handle at a front portion thereof for convenient installation and removal of the removable module.

20 14. The removable apparatus of claim 13, wherein the handle further comprises a withdrawal post to push one of the support studs to withdraw conveniently the removable module when the handle is open.

15. The removable apparatus of claim 11, wherein the second slide rail is directly pressed on the module sidewall.

25 16. The removable apparatus of claim 11, wherein the second slide rail is made

of the elastically linear material.

17. A removable apparatus utilized in a server rack for installing an electrical device in the server rack, the removable apparatus comprising:

- 5 a removable module for fixing the electrical device therein, wherein the removable module further comprises:
- a module sidewall;
 - a first slide rail fixed on the module sidewall, wherein the first slide rail is an elastically linear slide rail made of a linear material;
 - 10 a first rail support hook fixed on the module sidewall to support the first slide rail;
 - a first rail fixing hook fixed on the module sidewall to prevent the first slide rail from moving up; and
 - a second slide rail fixed on the module sidewall and above the first slide rail;
 - 15 and
- a module fixing device, wherein the module fixing device further comprises:
- a supporting wall;
 - a first stud fixed on the supporting wall; and
 - a second support stud fixed on the supporting wall, wherein the first support
 - 20 stud and the second support stud couple to the first slide rail and the second slide rail of the removable module, whereby the removable module is installed and slides in the module fixing device, and the first support stud is smaller than the second support stud.

- 25 18. The removable apparatus of claim 17, wherein the second slide rail is

directly pressed on the module sidewall.

19. The removable apparatus of claim 17, wherein the second slide rail is made of the elastically linear material and is fixed on the module sidewall by a second fixing
5 hook to prevent movement up, down, and laterally.

20. The removable apparatus of claim 17, wherein the server rack is a 1U server rack and four removable apparatuses are configured in the 1U rack in a horizontal width direction.

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